

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A motor drive device for an air conditioner comprising:
a converter ~~(200)(210)(220)(230)~~ which receives ~~an~~ AC power ~~(100)(110)~~;
a three phase inverter ~~(400)~~ which receives ~~the~~ output voltage from the converter ~~(200)(210)(220)(230)~~ and outputs an AC voltage ~~which is supplied~~ to a motor ~~(500)~~ for the air conditioner; and
a control means ~~(800)~~ which controls the converter ~~(200)(210)(220)(230)~~ so as to maximize efficiency.
2. (Currently Amended) ~~A motor~~ The motor drive device for air conditioner as set forth in claim 1, wherein
the converter ~~(200)(220)~~ is includes a three phase converter ~~(200)(220)~~.
3. (Currently Amended) ~~A motor~~ The motor drive device for air conditioner as set forth in claim 1, wherein
the converter ~~(210)(230)~~ is includes a single phase converter ~~(210)(230)~~.
4. (Currently Amended) ~~A motor~~ The motor drive device for air conditioner as set forth in ~~one of~~ claim 1 ~~through claim 3~~, further comprising
a reactor ~~(101)~~ connected in series to the converter ~~(200)(210)(220)(230)~~ in its on an input side of the converter; and
a capacitor ~~(102)~~ connected in parallel to the converter ~~(200)(210)(220)(230)~~ in its on the input side of the converter.

5. (Currently Amended) ~~A motor~~ The motor drive device ~~for air conditioner~~ as set forth in ~~one of claim 1 through claim 4~~, wherein

the converter ~~(200)(210)(220)(230) comprises~~ includes pairs of switching devices each connected in series, ~~the pairs of switching devices being connected in parallel to each other~~, a number of pairs corresponding to a phase number, and a diode which is connected in parallel to each switching device, the pairs of switching devices are connected in parallel to each other.

6. (Currently Amended) ~~A motor~~ The motor drive device ~~for air conditioner~~ as set forth in ~~one of claim 1 through claim 4~~, wherein

the converter ~~(200)(210)(220)(230) comprises~~ includes serial circuits which are connected in parallel to each other, ~~each serial circuit comprising one switching device and a pair of diodes connected in forward connection and interposing the switching device~~, a number of serial circuits corresponding to a phase number, and a diode which is connected in parallel to each switching device in reverse connection, each serial circuit including one switching device and a pair of diodes connected in forward connection and interposing the switching device.

7. (New) The motor drive device as set forth in claim 2, further comprising a reactor connected in series to the converter on an input side of the converter; and a capacitor connected in parallel to the converter on the input side of the converter.

8. (New) The motor drive device as set forth in claim 3, further comprising a reactor connected in series to the converter on an input side of the converter; and a capacitor connected in parallel to the converter on the input side of the converter.

9. (New) The motor drive device as set forth in claim 4, wherein
the converter includes pairs of switching devices each connected in series, a number of pairs corresponding to a phase number, and a diode which is connected in parallel to each switching device the pairs of switching devices are connected in parallel to each other.

10. (New) The motor drive device as set forth in claim 4, wherein
the converter includes serial circuits which are connected in parallel to each other, a number of serial circuits corresponding to a phase number, and a diode which is connected in parallel to each switching device in reverse connection, each serial circuit including one switching device and a pair of diodes connected in forward connection and interposing the switching device.